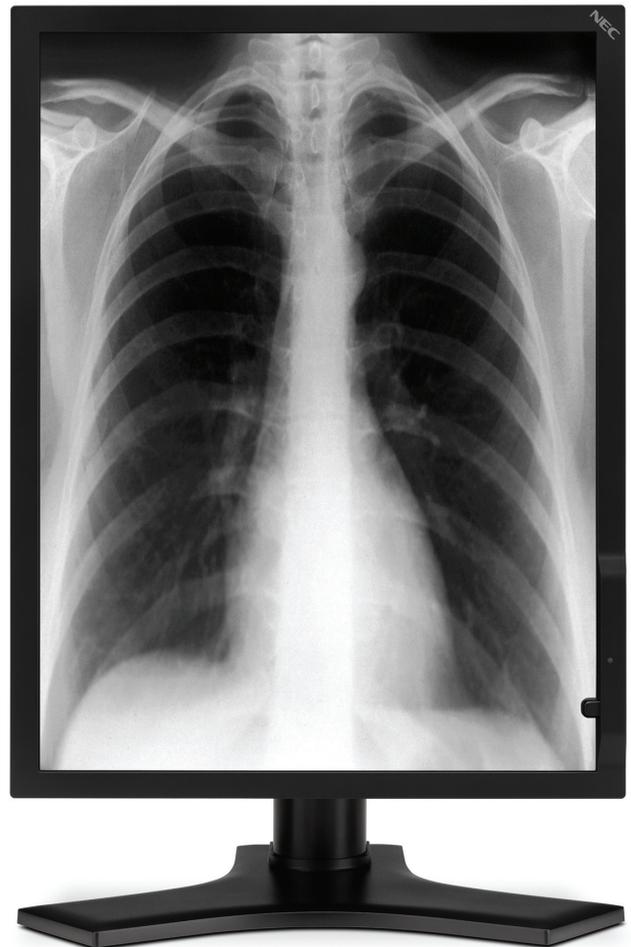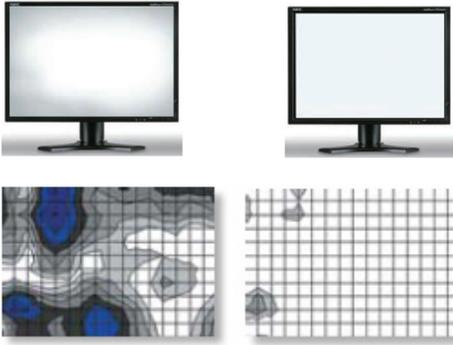# NEC MultiSync® MD213MG

21.3" high-resolution 3MP grayscale LCD display ideal for medical imaging applications

Designed exclusively for the demanding needs of radiology and PACS, the NEC MultiSync MD213MG, a 21.3" 3-Megapixel (MP) grayscale display, delivers unrivaled imaging performance. Benefits you'll realize from this medically certified display include:
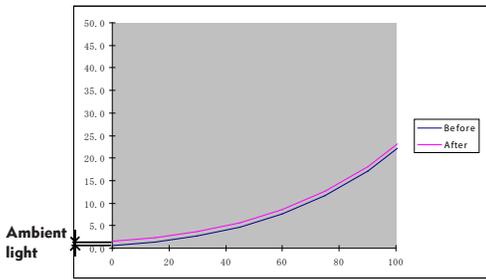
- NEC's UA-SFT 3MP (1536 x 2048) liquid crystal technology offers long life at high brightness without compromising contrast or viewing angles, resulting in outstanding grayscale image quality.
- Digital uniformity correction reduces screen uniformmity errors and compensates for differences in grayscale and luminance across the entire screen
- Built-in front sensor constantly monitors calibration and corrects for minor fluctuations of light output, helping to maintain the factory calibration throughout the life of the monitor
- Each NEC MultiSync MD213MG monitor is calibrated out of the box to the DICOM grayscale display function for luminance.
- 12-bit gamma provides for more finely detailed, high-definition rendering of images and crisper display of even the most delicate shadings
- GammaComp™ MD software, included with each display, ensures consistent image quality. The software provides a simple interface for conformance to the DICOM standard, while providing an easy-to-use QA environment for medical imaging. Optionally, GammaComp MD Administrator provides computer networks with centralized control and management of multiple display systems.

NEC MULTISYNC MD SERIES The clear choice in diagnostic displays.

FIVE YEAR
5
LIMITED LIMITED
WARRANTY

NEC

Achieve complete and brightness uniformity. *By nature, LCD panels contain uniformity errors, which are visible as slightly brighter or darker areas on the screen. To combat this inherent trait, each MultiSync MD213MG display is individually characterized during production using a fully automated system that measures multiple points across the screen at different gray levels. These measurements are used to build a 3-D correction matrix stored inside the display. This data is used to compensate for the uniformity not only as a function of position on the screen but of gray level as well. In turn, this technology reduces the non-uniformity to virtually unnoticeable levels and applies a digital correction to each pixel on the screen to compensate for differences in luminance.*

For optimal image viewing in any lighting condition, the MD213MGs built-in ambient light sensor can automatically adjust the calibration of the display to suit the environment.

For consistent image quality, the built-in front sensor constantly monitors and maintains brightness for optimal DICOM GSDF calibration. For non-assisted conformance, calibration and reporting functions, the sensor is capable of measuring monitor brightness, whitepoint and contrast response.
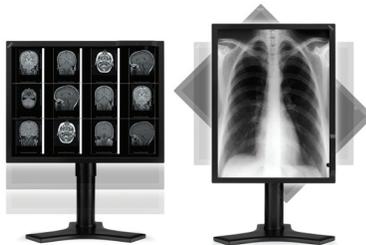

The MD213MG's design allows you to adjust the display to your exact ergonomic preferences. In addition to tilt and swivel functionality, the height adjusts up to 150mm, and the display pivots between landscape to portrait orientations.

Model	MultiSync MD213MG
Display	
Viewable Size Image	21.3"
Pixel Pitch	0.21mm
Pixels Per Inch	120
Brightness (typical)	400 cd/m^2 calibrated / 1450 cd/m^2 max
Contrast Ratio (typical)	900:1
Viewing Angle (typical)	176° Vert., 176° Hor. (88U/88D/88L/88R)@ CR > 10
Response Time (typical)	Rapid Response™ 24ms (12ms Gray-to-Gray)
Panel Bit Depth	12-bit internal LUTs, displays up to 1024 shades of gray out of 4096
Synchronization Range	
Horizontal	31.5 - 93.8 KHz (Analog) / 31.5 - 95.4 KHz (Digital)
Vertical	50 - 85 Hz
Video Bandwidth	25.2 - 209.3 MHz (DualLink)
Input Signal	
Video	Analog RGB 0.7 Vp-p/75 Ohms
Sync	Separate sync: TTL Level (Positive/Negative)
	Composite sync: TTL Level (Positive/Negative)
	Composite sync on green: (0.3Vp-p negative 0.7Vp-p positive)
Inputs	DVI-D and DVI-I
Resolutions Supported (Analog/Digital)	640 x 400 @ 70-85 Hz* 1600 x 1200 @ 60-75 Hz 720 x 400 @ 70-85 Hz 1920 x 1200 @ 60 Hz 640 x 480 @ 60-85 Hz 2048 x 1536 @ 60 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-85 Hz 1152 x 864 @ 70-85 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-85 Hz
Native Resolution	2048 x 1536 @ 60 Hz landscape / 1536 x 2048 @ 60 Hz portrait
Additional Features	Ultra-thin frame (bezel), No Touch Auto Adjust™, VESA Mount, tilt, swivel, height-adjustable stand (5.9 in./150mm), pivot, vacation switch, 12-bit LUTs, black level adjustment, AmbiBright, ColorComp uniformity correction, overdrive, Analog/Digital CableComp™, GammaComp™ MD software, standalone calibration
Voltage Rating	AC 100-120V / AC 220-240V
Power Consumption (typical)	
On	100W
Power Savings Mode	2W
Dimensions (WxHxD)	
Net (with stand)	18. x 17.1 - 23 x 12 in. / 467.8 x 434.3 - 584.3 x 306mm
Net (without stand)	18.4 x 14.2 x 4.4 in. / 467.8 x 361.6 x 110.7mm
Net Weight	
(with stand)	23.5 lbs. / 10.7 kg
(without stand)	16.5 lbs. / 7.5 kg
VESA Hole Configuration Specifications	100 x 100mm
Environmental Conditions	
Operating Temperature	5-35° C / 41-95° F
Operating Humidity	30-80%
Operating Altitude	3000m / 9842 ft.
Storage Temperature	-10-60° C / 14-140° F
Storage Humidity	10-85%
Storage Altitude	12,192m / 40,000 ft.
Safety Standards	UL/C-UL, UL60601-1, Gost/PCT, PSB, CCC, FCC Class B/Canadian DOC, C-tick, MPR II / MPR III, VCCI (class 2), JIS C 61000-3-2, static electricity guideline, low emission guideline, ISO9241-307, TCO '03, TCO '6, US Mercury regulations, WEEE, RoHs, SASO, Energy Star, J-Moss, FDA 510k pending, CE-MDD, IRAM, TUV GM, EPEAT, AAPM-TG-18, DIN V 6868-587 (Germany) CATB
Limited Warranty**	5 years parts and labor, including Advanced Overnight Exchange

* Digital only
** Backlight usage limited to 500 cd/m^2 or less for entire duration of warranty

ENERGY STAR | RoHS compliant | CERTIFIED FOR Windows Vista™

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